WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS OF PATENT OF THE UNITED STATES IS:

- An annular combustor (13) for a gas turbine (10),
 into which combustor (13) burners (14, 15) open on an inlet side, and which combustor (13) extends in the axial direction from the inlet side to an outlet side (33) and is lined on the insides with cooled liner segments (16, 17) for protection from the hot gases,
- 10 characterized in that the liner segments (16, 17) are subdivided in the axial direction into a plurality of parts (16, 17) arranged one behind the other.
- 2. The combustor as claimed in claim 1, characterized in that the liner segments (16, 17) are subdivided into two parts (16, 17).
- 3. The combustor as claimed in claim 2, characterized in that the liner segments (16, 17) are subdivided 20 where the flow velocity of the hot gases is low.
 - 4. The combustor as claimed in claim 3, characterized in that the liner segments (16, 17) are subdivided in such a way that the lengths of the individual segment parts (16, 17) in the axial direction are approximately the same.
 - 5. The combustor as claimed in one of claims 1 to 4, characterized in that the liner segments (16, 17) are 0 fastened to segment carriers (18,...,21), and in that the segment carriers (18,...,21) are likewise subdivided in the axial direction into a plurality of parts (18,...,21).
- 35 6. The combustor as claimed in one of claims 1 to 5, characterized in that the liner segments (16, 17) are convection-cooled.

- 7. The combustor as claimed in claim 6, characterized in that the subdivided liner segments (16, 17) are convection-cooled separately.
- 5 8. The combustor as claimed in claim 7, characterized in that the cooling medium flowing through those parts (17) of the liner segments which are situated downstream is released into the hot-gas flow of the combustor (13).

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- 9. The combustor as claimed in claim 6, characterized in that transition channels (22, 23) are provided between the subdivided liner segments (16, 17), through which transition channels (22, 23) the convectively cooling cooling medium can flow from one part (17) of the liner segments into the other part (16) of the liner segments.
- 10. The combustor as claimed in one of claims 6 to 8,
 20 characterized in that those parts (17) of the liner segments which are located downstream are cooled only by part of the mass flow provided overall for the cooling of the liner segments.